

Appl. No. 10/750,302
Amdt. dated 6/28/06
Reply to Office Action of 3/29/06

PATENT
Docket: 030221

REMARKS

Claims 1-25 are pending in the present application. Claims 1-25 have been examined, claims 1-3, 5-8, 10-15 and 18-25 are rejected, and claim 4, 9, 16 and 17 are objected to. In the above amendments, claims 1, 5, 6, 16 and 20-25 have been amended. Therefore, after entry of the above amendments, claims 1-25 will be pending in this application. Applicant believes that the present application is now in condition for allowance, which prompt and favorable action is respectfully requested.

Objected to Claims 4, 9, 16 and 17

Claims 4, 9, 16 and 17 are objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 16 has been amended to include key limitations of original base claim 6 and intervening claim 15. Claim 17 is dependent on claim 16. Applicant submits that claim 16 and 17 are now allowable. Applicant would like to defer amendments to claims 4 and 9.

Rejection of Claims 1-3, 5-8, 10-15 and 18-25 Under 35 U.S.C. §102(b)

Claims 1-3, 5-8, 10-15 and 18-25 stand rejected under 35 U.S.C. §102(b) as being anticipated by Koo *et al* (U.S. Patent No. 6,622,024).

Koo discloses an outer loop that sets a target SIR used by an inner loop to generate transmit power control (TPC) commands. A transport channel operates with a target block error rate (BLER) selected for the transport channel. This target BLER requires different target SIRs for static and dynamic channels. A static channel is an additive white Gaussian noise (AWGN) channel (see column 4, lines 4-5). Dynamic channels are fading channels (see column 4, lines 57). The target SIRs for static and dynamic channels may vary by a large amount. As an example, for 1% BLER, the target SIR for case 1 fading channel is more than 5 dB higher than the target SIR for case 2 fading channel, as shown in FIG. 4. If case 1 fading channel is assumed but case 2 fading channel is the actual channel, then it will take longer to converge to the proper SIR target (see column 4, lines 11-17).

Koo discloses using a first filter process to distinguish between static and dynamic channels and using a second filter process to characterize the dynamic channel conditions (see column 4, lines 56-58). Koo determines a static adjustment value and a dynamic

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adjustment value and adjusts the target SIR with the static and dynamic adjustment values (see blocks 908, 911 and 912 in FIG. 9).

Claim 1 of the present invention, as amended, recites:

"A device in a wireless communication system, comprising:
a data processor operative to process at least one data block, received in a current update interval and on at least one transport channel among a plurality of transport channels, and to provide a status of each of the at least one data block; and
a controller operative to maintain a single signal quality (SIR) target for the plurality of transport channels, to adjust the SIR target based on the status of the at least one data block received in the current update interval, and to use the SIR target for power control of data transmission on the plurality of transport channels."

Applicant submits that claim 1 is not anticipated by Koo for at least the following reasons.

First, Koo does not disclose "a data processor operative to process at least one data block, received ... on at least one transport channel among a plurality of transport channels," as recited in claim 1. A transport channel is a data/message bearer used to send data blocks. Rather, Koo discloses static and dynamic channels, which are different types of wireless channel.

Second, Koo does not disclose "a controller operative to maintain a single signal quality (SIR) target for the plurality of transport channels," as recited in claim 1. Koo presumably adjusts a target SIR for a single transport channel since the equations appear to be for a single transport channel. For example, equation 1 in column 4 uses a single target_BLER for a single transport channel.

Third, Koo does not disclose "adjust the SIR target based on the status of the at least one data block received in the current update interval," as recited in claim 1. The SIR target is essentially adjusted by the at least one transport channel received in the current update interval among the plurality of transport channels. Koo does not disclose this feature.

Fourth, Koo does not disclose "use the SIR target for power control of data transmission on the plurality of transport channels," as recited in claim 1.

In summary, Koo and claim 1 address two different problems. Koo is concerned with the actual channel condition being different from an assumed channel condition. This

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problem may be more of a concern in a time division duplex (TDD) system (see column 1, lines 11-12) in which data is sent in bursts and the channel condition may change between bursts. Claim 1 is concerned with adjusting an SIR target for multiple transport channels, which may have different BLER targets and hence different SNR targets. Koo addresses a different problem and therefore does not disclose many of the features of claim 1.

For at least the above reasons, Applicant submits that claim 1 is not anticipated by Koo. Independent claims 5, 6 and 20-25 have each been amended to recite the features noted above for claim 1. Claims 2 and 3 are dependent on claim 1. Claims 8, 10-15, 19 and 19 are dependent on claim 6. These claims are not anticipated by Koo for at least the reasons noted for claim 1.

Accordingly, the §102(b) rejection of claims 1-3, 5-8, 10-15 and 18-25 should be withdrawn.

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CONCLUSION

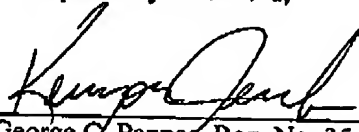
In light of the amendments contained herein, Applicant submits that the application is in condition for allowance, for which early action is requested.

Please charge any fees or overpayments that may be due with this response to Deposit Account No. 17-0026.

Respectfully submitted,

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